Claims:

- 1 1. A method for mixing silica filled rubber comprising the steps of:
- adding a polymer base, silicate mineral filler, water, and silicate mineral coupling agent to
- a mixer to create a first mixture, wherein the silicate mineral filler to water weight ratio is from 1:4
- 4 to 10:1; and
- 5 mixing the first mixture to a target temperature suitable for initiating coupling of the silicate
- 6 mineral filler to the polymer base.
- 1 2. The method of claim 1, wherein the silicate mineral filler to water weight ratio is from 1:3
- 2 to 5:1.
- 1 3. The method of claim 1, wherein the silicate mineral filler to water weight ratio is from 1:2
- 2 to 4:1.
- 1 4. The method of claim 1, wherein the first mixture includes from about 10 to 100 parts by
- weight of silicate mineral filler per 100 parts by weight of the polymer base.
- 1 5. The method of claim 1, wherein the first mixture includes from about 1 to 30 parts by
- weight silicate mineral coupling agent per 100 parts by weight of the silicate mineral filler.
- 1 6. The method of claim 1, wherein the water in the first mixture and the silicate mineral filler
- 2 in the first mixture are provided by a water treated silicate mineral filler having a silicate mineral
- 3 filler to water weight ratio of from 1:4 to 10:1.
- 1 7. The method of claim 1, wherein the silicate mineral filler is selected from the group
- 2 consisting of clay, mica, tale, glass fiber, and silicates, and mixtures of the foregoing.
- 1 8. The method of claim 7, wherein the silicate mineral filler includes silica.

1	9.	The method of claim 1, wherein, after said step of mixing the first mixture, the method	
2	further comprises the steps of:		
3		cooling the first mixture;	
4		adding a cure package to the first mixture to create a second mixture; and	
5	mixing	g the second mixture.	
1	10.	The method of claim 9, wherein the first mixture is created in a first mixing pass and the	
2 .	second	I mixture is created in a second mixing pass, such that the method is a two pass mixing	
3	process.		
1	11.	A silica filled rubber made by a process comprising the steps of: \sim'	
2		adding a polymer base, silicate mineral filler, water, and silicate mineral coupling agent to	
3	a mixer to create a first mixture, wherein the silicate mineral to water weight ratio is from 1:4 to		
4	10:1; and		
5		mixing the first mixture to a target temperature suitable for initiating coupling of the silicate	
6	mineral filler to the polymer base.		
1	12.	The method of claim 11, wherein, after said step of mixing the first mixture, the method	
2	further comprises the steps of:		
3		cooling the first mixture;	
4		adding a cure package to the first mixture to create a second mixture; and	
5	mixing	g the second mixture.	
1	13.	The method of claim 12, wherein the first mixture is created in a first mixing pass and the	
2	second	mixture is created in a second mixing pass, such that the method is a two pass mixing	

process.

1	14.	A water treated silicate mineral filler comprising:
2		a silicate mineral filler and water, wherein the silicate mineral filler to water weight
3		ratio is from 1:4 to 10:1